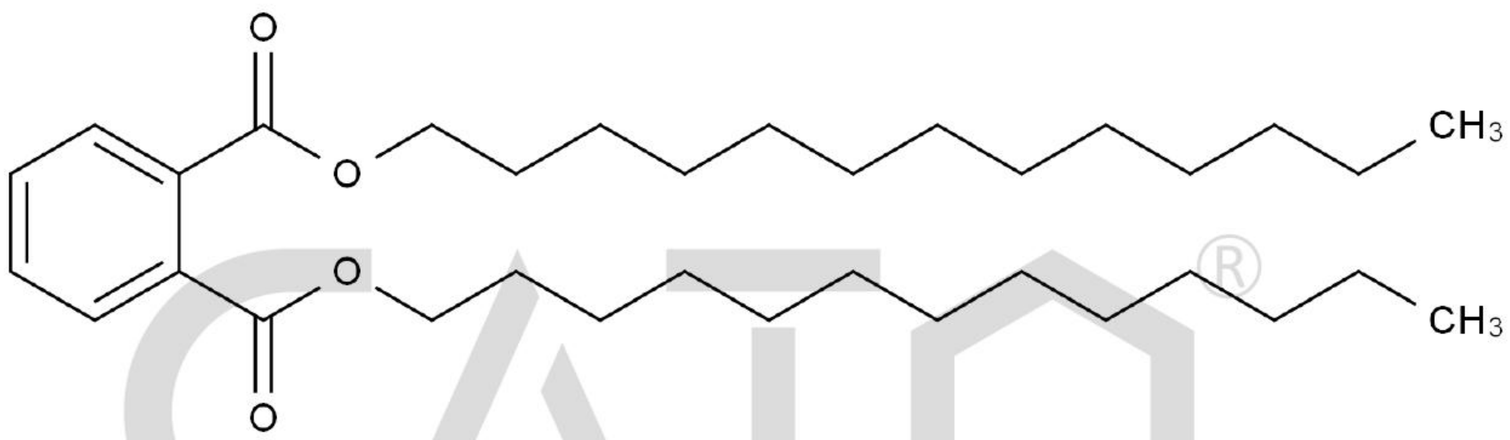
Certificate of Analysis

Reference Material & Standard

Product Name:	Phthalic acid, bis-tridecyl ester	**Catalogue Number:**	CCFD200921
Synonyms:	N/A	**Lot Number:**	0617-RH-0060
CAS Number:	119-06-2	**Expiry Date:**	Jun 24, 2032
Molecular Formula:	$C_{34}H_{58}O_4$	**Storage:**	Room Temp Protected from light and Sealed
Molecular Weight:	530.82	**Shipping Condition:**	Shipping at Room Temperature

Chemical Structure:



Test Items	Method	Results
Appearance	Visual inspection	White Solid
Identification	GCMS&HNMR	Confirmed
Purity	GC	99.7%
Assay	qNMR	99.0%
Uncertainty		±0.4%

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Comment:

The uncertainty values are the expanded uncertainty and represent an estimated standard deviation equal to the positive square root of the total variation of the uncertainty of components. A normal distribution is assumed and a coverage factor of K=2 is chosen using approximately a 95% confidence level.

Signature:

Prepared by: Alice Date: Jun 25, 2026

Reviewed by: Lisa Date: Jun 25, 2026

Approved by General Manager: David Date: Jun 25, 2026

CATO Research Chemicals Inc.